



Pre-release Product Information

HF/VHF/UHF ALL MODE TRANSCEIVER

IC-7000



IF-DSP Technology Comes To A New Multi-Bander!

2 × DSP

That's two times the DSP in the IC-7000 that will leave many base station rigs in the noise! While it is too early to list all the great features, here are a few to keep you talking!

Improved AGC loop performance

With Multiple AGC loops, you will never experience AGC pumping from a signal filtered out by the DSP! The digital IF filter and manual notch filter are included in the AGC loop, so you will never encounter AGC blocking. As with the 756PROIII and IC-7800, the AGC time constants are adjustable for slow, middle, fast for each operating mode.

Digital IF filters

All the filters you want at your fingertips! You will never have to purchase "Optional" filters as the IC-7000 has 41 different filter widths. You just dial in the width you want and select whether you want a sharp or soft filter shape for SSB and CW modes. Then to pull-in the the weak ones, a quick turn of the the concentric twin PBT knobs, allow you to either narrow the IF passband, or shift the entire passband to eliminate the QRM.



2 × MNF (Manual Notch Filter)

Pull out the weak signals in crowded band conditions with Icom's NEW two-point MNF manual notch filter. Apply 70 dB of rejection to two signals at once! Notch width is adjustable – wide, medium, and narrow – and an auto-tuning notch filter is available, too.



Digital voice recorder (DVR)

Record your callsign, CQ, or other information in 4 transmit play-back memories with alphanumeric labels. A total of 90 seconds is available for the four memories. A front panel REC control allows you to record incoming signals, too! The DVR makes portable con- testing or mini-expeditions a breeze!

Flexible installation with detachable panel

Smaller than the IC-706MKIIG, the IC-7000 measures only 167(W)×58(H)×180(D) mm^{*1}. With the detachable front panel^{*2} many installation possibilities are available.

^{*1} 6⁹/₁₆(W)×2⁹/₃₂(H)×7³/₃₂(D) in

^{*2} An optional separation cable is required

Remote control Microphone

The supplied HM-151 remote control microphone allows you to control often used functions of the IC-7000. This includes band hopping with Icom's Triple Band Stack registers.

2-mode band scope

The band scope function lets you watch conditions around the band. In Center mode the band scope is centered on the receiving frequency. In Fixed mode the band scope sweeps a fixed range.



Icom Inc.

2.5-inch color TFT display with TV screen receive capability

The IC-7000's display presents numbers and indicators in bright, concentrated colors for easy recognition. You can choose from 3 background colors and 2 font styles to suit your preference. Not only does the display provide radio status, but you can watch NTSC M or PAL B on VHF-TV channels!*

* Not available in all versions

One-touch operation

Eight of the most-used radio functions are controlled by dedicated function keys grouped around the display for easy visibility. One quick touch turns the function and off. A longer touch activates adjustment of the function's setting.



SPECIFICATIONS

GENERAL

- Frequency coverage*1 :
 - Receive 0.030–199.999MHz*2 400.000–470.000MHz*2
 - Transmit 1.800–1.999MHz 3.500–3.999MHz
 - 5.3305, 5.3465, 5.3665, 5.3715, 5.4035MHz*3
 - 7.000–7.300MHz 10.100–10.150MHz
 - 14.000–14.350MHz 18.068–18.168MHz
 - 21.000–21.450MHz 24.890–24.990MHz
 - 28.000–29.700MHz 50.000–54.000MHz
 - 144.000–148.000MHz 430.000–450.000MHz
- *1 Showing USA version. Varies according to version.
- *2 Some frequency bands are not guaranteed. *3 USB only
- Mode : USB, LSB, CW, RTTY, PSK31, AM, FM, WFM (Rx only)
- No. of memory channels : 503 (495 regular, 2 call, 6 scan edges)
- Antenna impedance : 50 Ω (SO-239×2 for HF/50 MHz and VHF/UHF)
- Power supply requirement : 13.8V DC ±5%
- Operating temp. range : -10°C to +60°C; +14°F to +140°F
- Frequency stability : Less than ±0.5ppm (+0°C to +50°C)
- Current drain :
 - Transmit Max. power 22A
 - Receive Standby 1.3A
 - Max. audio 1.6A
- Dimensions (W×H×D) : 167×58×180 mm; 6⁹/₁₆×2⁹/₃₂×7³/₃₂ in (projections not included)
- Weight (approx.) : 2.3kg; 5.1lb

TRANSMITTER

	HF/50MHz	144MHz	440MHz
SSB/CW/RTTY/FM	2–100W	2–50W	2–35W
AM	1–40W	2–20W	2–14W

- Spurious emissions : Less than -50dB (Below 30MHz)
Less than -60dB (Above 50MHz)
- Carrier suppression : More than 50dB
- Unwanted sideband suppression : More than 50dB

This device has not been approved by the appropriate authorities in each country. This device may not be sold or leased, or be offered for sale or lease, until approval has been obtained. All stated features, appearances, screen shots and specifications may be subject to change without notice. All screens show simulated pictures.

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

Memory Keyer

The internal memory keyer provides 4 memories for station information or contest exchanges, calling CQ and call sign with up to 55 characters for each memory. The keyer also performs automatic repeat, automatic contest serial numbers, and "cut-numbers".

Other features

- [Installation] • Control circuit for optional antenna tuners
- [Operation] • Built-in voice synthesizer • CI-V control capability
- Auto repeater functions • Total of 503 channels • Quick band change
- Multi-function S/PWR/SWR meter • Backlit buttons • 24-hour Clock
- [Receiver] • Preamp • Attenuator • 100-step digital noise blanker
- 16-step digital noise reduction • RIT • CTCSS, DTCS tone squelch
- [Transmitter] • ±0.5 ppm high frequency stability • Continuously adjustable RF output power • Digital RF speech compressor • Powerful 35W on 70cm band • Bass and treble audio equalizer
- Adjustable SSB transmit bandwidth • DTMF memory • ΔTX • VOX [CW] • Full break-in • CW reverse sideband • Adjustable CW pitch

RECEIVER

- Intermediate frequencies :
 - SSB/CW/AM/FM 124.487MHz, 455kHz, 16.15kHz
 - WFM 134.732MHz, 10.700MHz
- Sensitivity (preamp on; except 4–4.5 and 8–9 MHz):

	0.5–1.8MHz	1.8–29.9MHz	50–54MHz	144/440MHz
SSB/CW	—	0.15μV	0.12μV	0.11μV
AM	4.0μV	2.0μV	1.0μV	1.0μV
FM	—	0.5μV (28–29.7)	0.25μV	0.18μV
WFM	—	—	10.0μV (76–108MHz)	—
- SSB/CW, AM : 10dB S/N, FM, WFM : 12dB SINAD
- Squelch sensitivity : SSB Less than 5.6μV (threshold; pre-amp on) FM Less than 0.3μV
- Selectivity :
 - SSB (BW=2.4kHz) : More than 2.4kHz/–6dB
Less than 3.9kHz/–60dB
 - CW (BW=500Hz) : More than 500Hz/–6dB
Less than 900Hz/–60dB
 - RTTY (BW=350Hz) : More than 360Hz/–6dB
Less than 650Hz/–60dB
 - AM (BW=6kHz) : More than 6.0kHz/–6dB
Less than 15kHz/–60dB
 - FM (BW=15kHz) : More than 12kHz/–6dB
Less than 20kHz/–60dB
- Spurious and image rejection ratio:
 - HF bands : More than 70dB
 - 50/144/440MHz : More than 65dB (except 144MHz IF point)
- Audio output power : More than 2.0W (at 13.8V DC) (8Ω load, 10% distortion)

Supplied accessories:

- Hand microphone
- DC power cable
- Spare fuses
- Key plug
- Electronic keyer plug
- ACC cable

OPTIONS

- **AT-180** HF+50MHz AUTOMATIC ANTENNA TUNER
- **AH-4** HF+50MHz AUTOMATIC ANTENNA TUNER
- **AH-2b** ANTENNA ELEMENT
- **CT-17** CI-V LEVEL CONVERTER
- **HM-151** REMOTE-CONTROL MICROPHONE
- **SM-20** DESKTOP MICROPHONE
Optional OPC-589 is required.
- **SP-10** EXTERNAL SPEAKER
- **MB-62** MOBILE BRACKET for main unit or the AT-180
- **MB-105** CONTROLLER MOUNTING BRACKET
- **MB-65** MOUNTING BASE
Optional MB-105 is required.
- **MB-106** CARRYING HANDLE
- **OPC-1443/OPC-1444** SEPARATION CABLES
OPC-1443: 3.5 m (11 ft), OPC-1444: 5 m (16 ft)
- **OPC-589** MODULAR 8-PIN CABLE ADAPTER
For using a 8-pin type microphone.
- **OPC-598** ACC 13 PIN CABLE FOR AT-180 (7 m)
- **OPC-599** ACC 13 PIN CABLE ADAPTER
For IC-PW1/EURO
- **OPC-742** ACC 13 PIN CABLE FOR AT-180 WITH
2 m/70 cm LINEAR AMPLIFIER
- **IC-PW1/EURO** HF+50 MHz 1 kW LINEAR AMPLIFIER
2 exciter inputs are available. OPC-599 is required.

REAR VIEW



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